

ABSTRACT

A lancing device comprising a movable parallelogram-shaped rack. The rack rotates a linearly fixed pinion which drives a slider-crank system. The slider-crank system in turn drives a lance holder. The parallelogram-shaped rack defines one or more predetermined paths along which the pinion moves. The lance holder is prevented from being extended beyond a predetermined depth when the pinion reaches a predetermined position along the one or more predetermined paths. The pinion is mechanically stopped from further progress by intersecting two legs of the parallelogram-shaped rack. Teeth of the rack may be modified to reduce the chance the pinion may jam in the rack.

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